

IEEE Computer Society Magazines

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IEEE computer society

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nd telephone network* Appearing in: Full Text

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Feature Interactions and Formal Specifications in Telecommunications
 Found in: Computer
 By Pamela Zave
 Issue Date: August 1993
 pp. 20-29
 The feature-interaction problem found in complex software systems that support telecommunications is reviewed. The relationship between feature interactions and formal specifications is examined. Several important ways telecommunications has evolved by...

Audio Networking: The Forgotten Wireless Technology
 Found in: IEEE Pervasive Computing
 By Anil Madhavapeddy, David Scott, Alastair Tse, Richard Sharp
 Issue Date: July 2005
 pp. 55-60
 Modern computing and communication devices offer a wide range of wireless communication protocols to transmit data such as infrared, Bluetooth, and Wi-Fi. However, one technology, although even more ubiquitous with lower power requirements, has fallen off ...

Building social discourse around mobile photos: a systemic perspective
 Found in: Proceedings of the 7th international conference on Human computer interaction with mobile devices & services (MobileHCI '05)
 By Risto Sarvas, Antti Oulasvirta, Giulio Jacucci
 Issue Date: September 2005
 pp. 12-14
 Camera phones have been viewed simplistically as digital cameras with poor picture quality while neglecting the utility of the two key functionalities of mobile phones: network connection and access to personal information. This is the first HCI paper to e...

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A self organizing social insect model for dynamic frequency allocation in cellular telephone networks

Full text PDF (125 KB)

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 Melbourne, Australia
 POSTER SESSION: Posters table of contents
 Pages: 1048 - 1049
 Year of Publication: 2003
 ISBN 1-58113-863-8

Authors Michael Lawlor Carleton University, Canada
 Tony White Carleton University, Canada

Sponsors SIGART: ACM Special Interest Group on Artificial Intelligence
 ACM: Association for Computing Machinery

Publisher ACM New York, NY, USA

Bibliometrics Downloads (6 Weeks): 0, Downloads (12 Months): 31, Citation Count: 0

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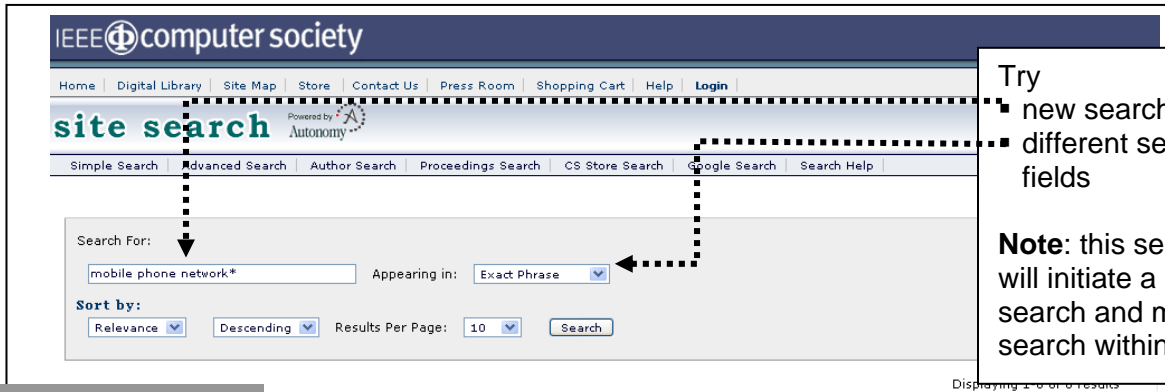
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ABSTRACT

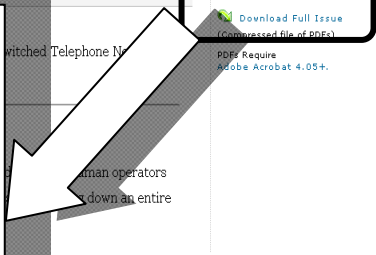
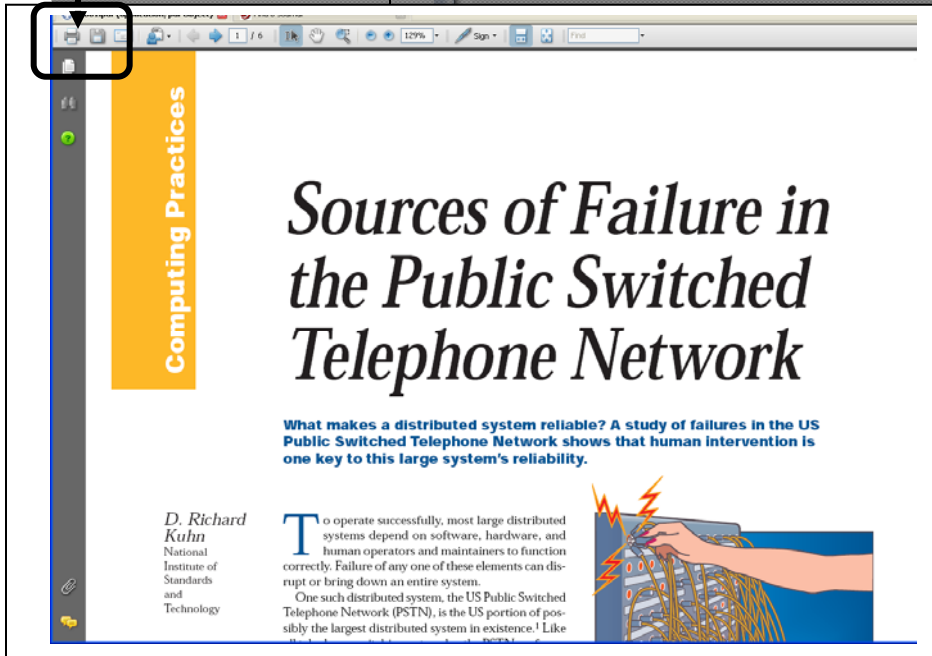
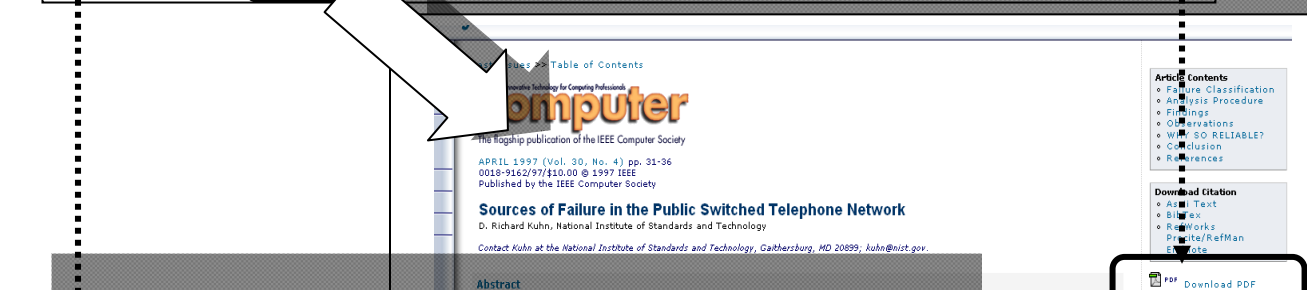
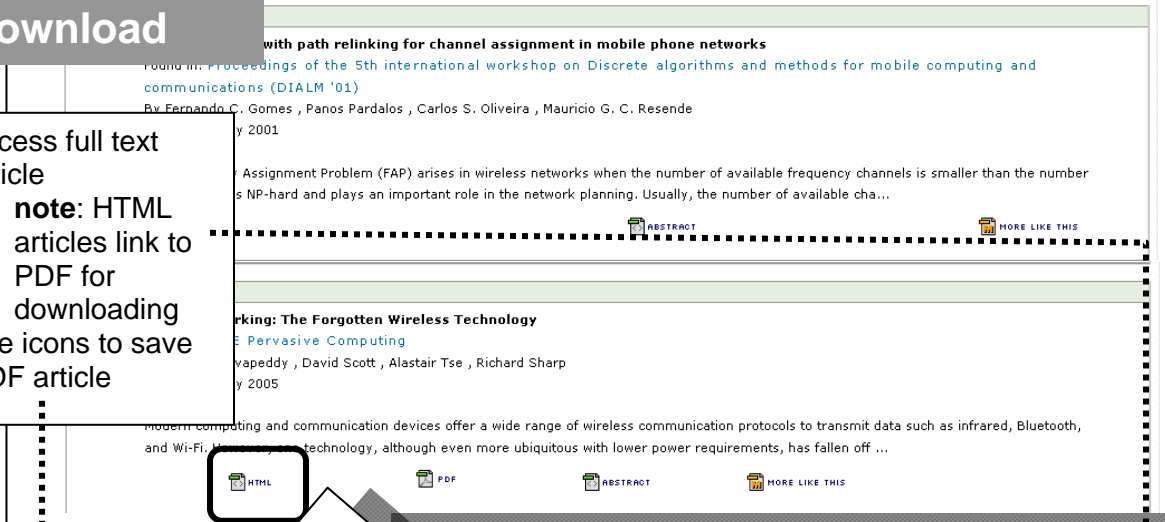
This paper describes a mobile agent solution to the problem of frequency allocation encountered in cellular telephone networks. The mobile agents used follow a social insect behavioral model for division of labor and task allocation similar to that exhibited by swarms of ants, wasps and other social insects. Through this behavioral model, the "swarm" of agents self-organizes and displays an adaptive, swarm level intelligence that is transparent to each individual agent. Putting these agents to work in a simulated cellular telephone network, a simpler, distributed solution to frequency allocation was achieved.

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